|          | Index of Claims                        |          |         |          |               |                   |                       |           |          |                   |                |                                        |                     | Ap        | Application No. |           |           |                        |              |             |                                         |              |            |              | Applicant(s) |                 |           |              |          |             |          |              |           |   |             |
|----------|----------------------------------------|----------|---------|----------|---------------|-------------------|-----------------------|-----------|----------|-------------------|----------------|----------------------------------------|---------------------|-----------|-----------------|-----------|-----------|------------------------|--------------|-------------|-----------------------------------------|--------------|------------|--------------|--------------|-----------------|-----------|--------------|----------|-------------|----------|--------------|-----------|---|-------------|
|          | INGEX OF CIAIMS                        |          |         |          |               |                   |                       |           |          |                   |                |                                        |                     | 10        | 10/029 630      |           |           |                        |              |             |                                         |              |            |              | JUNG ET AL.  |                 |           |              |          |             |          |              |           |   |             |
|          |                                        |          |         | $\  \ '$ |               |                   | $\parallel \parallel$ |           |          |                   |                |                                        |                     |           |                 | t         | Ex:       | 10/029,630<br>Examiner |              |             |                                         |              |            |              |              |                 |           | ut U         |          | <del></del> |          |              |           |   |             |
|          |                                        |          |         | III      |               |                   |                       |           | Ш        | Ш                 |                |                                        | i                   |           |                 | -         |           |                        |              |             |                                         |              |            | ٠.           |              |                 |           |              |          | •           |          | 1            |           |   |             |
|          |                                        | 118 000  | II liu. | 1 80.    | in e-         | il isa            | linis                 |           | I Mis    | <u> </u>          | 1 841,         | ita.                                   |                     |           |                 |           | Mic       | Michail A Belyavskyi   |              |             |                                         |              |            |              |              |                 |           | 644          | <u></u>  |             |          |              |           |   | <del></del> |
|          |                                        | •        |         | Г        |               | _                 | _                     | 7         |          | Г                 | $\top$         |                                        |                     | - h       |                 |           | -11       | ٦                      | Γ            | Т           | —                                       |              | _          | _            | 7            | $\overline{}$   | _         | 1            |          |             |          |              |           |   |             |
|          |                                        |          | 4       | R        | lej           | ecf               | ted                   | 1         |          | -                 | -              | (1)                                    | hro                 | ugh i     | num<br>ollec    | lera<br>I | il)       |                        | N            | N.          | No                                      | n-E          | lec        | :ted         | 1            | A               |           | A            | ppe      | al          |          |              | -         |   |             |
| •        |                                        |          | H       |          |               |                   |                       | +         | 十        |                   |                |                                        |                     |           |                 | + '       | ۲         | +                      | <del> </del> |             |                                         | —            | $\dashv$   | $\vdash$     | $\vdash$     | <u> </u>        |           |              |          | $\dashv$    |          |              |           |   |             |
|          |                                        |          | =       | Allowed  |               |                   |                       |           | ÷        |                   |                | R                                      | estri               | cted      | j               |           |           | I                      |              | Inte        | ərfe                                    | rer          | nce        |              | 0            |                 | ОÞ        | jec          | ted      | ı           |          |              |           |   |             |
| ſ        |                                        |          | را<br>— |          |               |                   |                       |           | <u>_</u> | <u> </u>          |                | <u> </u>                               |                     |           | _               |           |           | _                      | _            |             |                                         |              | _          |              | <u>니</u>     | <u> </u>        |           | _            |          | _           | <br>     |              |           |   |             |
|          | Cla                                    | aim<br>  | F       | 1        | 13            |                   | Da                    | ite       | _        | _                 | ·<br>—         | - 3                                    | CI                  | laim      | $\vdash$        |           | _<br>     | Date                   | e<br>T       | T           | _                                       | <del>-</del> |            |              | Claim        | <u></u>         | _         | _            | Da       | ate         |          | <del>-</del> | T-        |   |             |
| 1        | Final                                  | Original | 120/04  | 100      | 10%           | 红                 |                       |           |          |                   |                | -                                      | Final               | Original  |                 |           |           |                        |              | 1           |                                         |              |            | ब्र          | jual         |                 |           |              | 1        |             |          |              |           |   |             |
| 1        | i <u>Ē</u> . !                         | န်<br>ဝ  | 7       | 8/12     | 5             | 7                 |                       |           |          |                   |                |                                        | ιĒ                  | 9<br>g    |                 | -         |           |                        |              |             |                                         |              | 14         | Final        | Original     |                 |           |              |          |             |          |              |           |   |             |
| }        |                                        | 1        | 7       |          | +             | 十                 | +                     | +         | +        | +                 | +              |                                        | <del> </del>        | 51        | +-+             | +         | +         | +                      | ╀            | +           | +                                       | +            | İŧ         | -            | 101          | H               | $\vdash$  | +            | +        | +           | +        | +            | $\vdash$  |   |             |
|          |                                        | 2        | 即       | Ţ        | 圢             | 工                 | #                     | #         | 丰        | 丰                 | 二              | ] !                                    | 匚                   | 52        | 口               | #         | #         | 上                      | L            | #           | 丰                                       | 上            |            |              | 102          | $\Box$          | 口         | $\downarrow$ | 士        | #           | 土        | 土            |           |   |             |
| }        |                                        | 3        | H       | #        | #             | +                 | +                     | +         | +        | +                 | $\vdash$       | 樹                                      | <del> </del>        | 53<br>54  | ┦               | +         | +         | +1                     | H            | +           | +                                       | +            | £.         | <u> </u>     | 103<br>104   |                 | H         | -            | +        | 7           | ]_       | 1            | Ц         |   |             |
|          |                                        | 5        | 111     | 止        | $\parallel$   | 士                 | 士                     | 士         | 士        | 上                 | 士              |                                        |                     | 55        | $\Box$          | 士         | 士         |                        | L            | 士           | 士                                       | 七            | iy.        | $\vdash$     | 105          |                 | $\vdash$  | +            | 十        | +           | +_       | +            | Н         |   |             |
| }        |                                        | 6<br>7   | Ш       | $\Psi$   | Ħ             | 1                 | Ŧ                     | Ŧ         | $\mp$    | L                 | L              |                                        | $\sqsubseteq$       | 56        | $\Box$          | 7         | 工         | 口                      | L            | Į           | I                                       | T            |            |              | 106          |                 |           | I            | 丁        | 丰           | 丰        | 上            | 口         |   |             |
| Ì        | $\exists$                              | - 8      | Ш       | ተ        | H             | Η_                | +                     | +         | +        | +                 | $\vdash$       | [:]                                    | <del> </del>        | 57<br>58  | H               | +         | +         | +-1                    | $\vdash$     | +           | +                                       | +            | Ŋ          | $\vdash$     | 107          | $\vdash$        | +         | +            | +        | +           | +        | $\vdash$     | Н         |   |             |
| [        |                                        | 9        | 田       | 卫        | Ц             | 丰                 | 工                     | 土         | 上        | 上                 | 上              |                                        |                     | 59        | 口               | #         | 土         | 口                      | 匚            | #           | 土                                       |              |            |              | 109          | $\Box$          | $\exists$ | $\pm$        | 士        | 士           | 士        |              | H         |   | •           |
| ŀ        | $\dashv$                               | 10       | H       | ╫        | H             | +                 | +                     | +         | +        | $\vdash$          | 1              | إزا                                    |                     | 60        | +               | 4         | 4         | $\dashv$               | Ĺ            | +           | 1                                       |              |            | <u> </u>     | 110          | $\Box$          | $\dashv$  | $\dashv$     | 7        | 1           | Ļ        | $\Box$       | 日         |   |             |
| ţ        |                                        | 12       | 世       | #        | 廿             | t                 | 士                     | 七         | 1        |                   | 世              |                                        |                     | 62        | 十               | +         | +         | +                      | 1            | t           | +                                       | +            | Y.         | $\vdash$     | 111          | H               | +         | +            | +        | +           | +        | H            | Н         |   |             |
| }        | _                                      | 13       | $\prod$ | 4        | H             | I                 | I                     | I         | I        | 二                 | L              | $\mathbb{N}$                           |                     | 63        | 口               | 7         | 工         | 口                      |              | I           | 丰                                       | $\Box$       |            | 匚            | 113          | 口               | 7         | 工            | 工        | 工           | 土        |              |           |   |             |
| t        | <del>-</del>                           | 15       | H       | +        | #             | +                 | +                     | +         | +        | +                 |                |                                        |                     | 64<br>65  | ++              | +         | +         | +                      | $\vdash$     | +           | +                                       | H            |            | <del> </del> | 114<br>115   | $\vdash$        | +         | +            | +        | +           | 1-       | H            | Н         |   |             |
| Ţ        |                                        | 16       | Д       | 力        | 巾             | 上                 | 丰                     | 土         | 士        | 上                 |                |                                        | _                   | 66        | $\Box$          | #         | 士         | 口                      |              | 士           | 士                                       | $\Box$       |            |              | 116          | $\Box$          | 1         | 士            | 士        | 七           | 士        | $\forall$    | H         | ٠ |             |
| }        | $\dashv$                               | 17<br>18 | Ш       | #        | +             | +                 | ╁                     | +         | +        | <del> -</del>     | $\square$      |                                        |                     | 67<br>68  | $\Box$          | 7         | 丰         | $\dashv$               | <u> </u>     | Ļ           | $\downarrow$                            | $\square$    |            |              | 117          | $\Box$          | $\exists$ | 7            | T        | T           | 二        | $\Box$       |           |   | ż           |
|          | コ                                      | 19       | 世       | T        | 士             | t                 | t                     | t         | t        | 一                 | 一              |                                        |                     | 69        | H               | +         | +         | H                      | _            | +           | +                                       | H            |            |              | 118          | $\vdash$        | +         | +            | +        | +           | +        | ╁┤           | $\dashv$  |   |             |
| ·        |                                        | 20       | $\prod$ | 1        | 4             | 二                 | 二                     | 丰         | 二        |                   |                | <i>[</i> :.[                           |                     | 70        | 口               | 丰         | 丰         | 口                      | _            | ļ           | $\perp$                                 | 口            |            |              | 120          | 口               | 寸         | 1            | 土        | 土           | 上        | ㅂ            | $\Box$    |   |             |
| }        |                                        | 21       | #       | 7        | 1             | +                 | +                     | +         | +        | ⊬                 | H              | <u></u> }                              |                     | 71<br>72  | +               | +         | +-        | ┦┦                     | _            | +           | +                                       | $\dashv$     | 7.2<br>2.2 | <u> </u>     | 121<br>122   | $\overline{H}$  | +         | +            | +        | +           | 1-       | Ц            | $\exists$ |   |             |
| -        | 二                                      | 23       |         | 7        | V             |                   | 上                     | 上         | 二        |                   |                |                                        |                     | 73        | 廿               | 士         | 士         | $\Box$                 | _            | t           | +                                       | H            | 200        |              | 123          | H               | +         | +            | 十        | +_          | 七        | $\vdash$     | $\dashv$  |   |             |
| +        |                                        | 24<br>25 | #       |          | 1             | <del></del>       | Į.                    | 1         | 1        |                   | $\Box$         |                                        |                     | 74        | $\Box$          | 7         | I         | $\Box$                 | _            | ļ           | $\Box$                                  | $\Box$       | 74<br>74   |              | 124          | $\Box$          | 7         | 工            | 1        | 工           | 口        | 口            | $\Box$    |   |             |
| t        |                                        | 26       | #       | J        |               | +                 | +                     | 十         | +        | $\vdash$          | H              | -                                      |                     | 75<br>76  | 1               | +         | +         | 1-+                    | _            | +           | +                                       | Н            | 1          |              | 125<br>126   | $\vdash \vdash$ | +         | +            | +        | +           | $\vdash$ | $\vdash$     | $\dashv$  |   |             |
| }        |                                        | 27       | #       | 1        | 4             | 二                 | 二                     | 二         | $\Box$   |                   |                |                                        |                     | 77        | 口               | 工         | 1         | 口                      | _            | 上           | $\Box$                                  |              | : [        |              | 127          | 口               | #         | 士            | 土        | 土           |          | ╚            | $\exists$ |   |             |
| +        |                                        | 28<br>29 | #       | #        | ተ             | $\vdash$          | $\vdash$              | +         | $\vdash$ | H                 | H              | 7::-                                   |                     | 78<br>79  | +               | +         | +         | $\vdash \vdash$        | _            | $\vdash$    | $\dashv$                                | H            | 7.<br>7.   |              | 128<br>129   | H               | +         | 7            | 7        | 1           | Ļ        | $\Box$       | $\exists$ |   |             |
| 1        |                                        | 30       | #       | 丌        | 中             | 上                 | 上                     | 上         |          |                   |                |                                        |                     | 80        | 中               | 士         | 士         | $\Box$                 | _            | t           | $\forall$                               | Н            |            |              | 130          | 一               | t         | +            | +        | +           | +        | $\vdash$     | 1         |   |             |
| +        |                                        | 31       | #       | #        | $\mathcal{H}$ | <u> </u>          | F                     | $\vdash$  | $\sqcup$ | $\bar{m{\sqcup}}$ |                |                                        | $\Box$              | 81        | $\Box$          | 7         | I         | $\Box$                 | _            | F           |                                         |              |            | _            | 131          | 口               | 7         | 丁            | 工        | 二           |          | 口            | $\Box$    |   |             |
| t        |                                        | 33       | #       | #        | Ш             | -                 | +                     | 十         | H        | H                 |                |                                        |                     | 82<br>83  | _               | +         | +         | ╀                      | _            | +           | +-1                                     | H            | 7          | —            | 132          | -+              | +         | +            | +        | +           | ╂╌┤      |              | $\dashv$  |   |             |
| -        |                                        | 34       | #       | #        | 卫             |                   |                       | 口         | 口        |                   | 口              | <u> </u>                               | $\Box$              | 84        | 4               | #         | 上         | 口                      | _            | L           | $\Box$                                  |              | 1          | _            | 134          | 1               | 士         | 土            | 士        | 士           |          |              | 1         |   |             |
| +        |                                        | 35<br>36 | #       | #        | $\mathcal{H}$ | H                 | -                     | ╀         | H        |                   | $\overline{+}$ |                                        | $\dashv$            | 85<br>86  | +               | +         | 1         | +                      | لـــ         | F           | H                                       | H            | ;;}        |              | 135          | 7               | 7         | 7            | I        | 厂           | Ц        | $\Box$       | $\exists$ |   |             |
|          |                                        | 37       | #       | #        | 世             |                   | 世                     |           |          |                   |                | ι÷Έ                                    | 寸                   | 87        | 士               | +         | +         | H                      |              | $\vdash$    | ╁┪                                      | -            | \<br>      |              | 136          | +               | +         | +            | +        | +-          | Н        |              | $\dashv$  |   |             |
| -        |                                        | 38<br>39 | #       | #        | 4             |                   |                       |           | П        | $\Box$            | 口              |                                        | $\Box$              | 88        | 工               | 工         | 口         | П                      |              |             | Ц                                       |              | 0.1<br>7   |              | 138          | 二               | 工         | 工            | 上        | 口           | 口        |              | $\exists$ |   |             |
| L        |                                        | 40       | ₩       | #        | +             | H                 | $\vdash$              | -         | H        | 7                 | 一              | -                                      | $\dashv$            | 89<br>90  | +               | +         | ╁┙        | $\vdash$               | 4            | $\vdash$    | ╁┪                                      |              | :-         |              | 139          | -+              | +         | +            | 1        | $\vdash$    | Н        | H            | 4         |   |             |
| F        |                                        | 41 -     |         | 7        | Z             |                   |                       | 匚         | 口        | コ                 | ゴ              |                                        | $\rightrightarrows$ | 91        | 二               | 士         |           | 口                      | ᅼ            | 上           | 口                                       |              |            |              | 141          | 士               | 士         | 士            | 士        | $\Box$      |          |              | $\exists$ |   |             |
| -        |                                        | 42       | +       | +        | $\dashv$      | H                 | H                     | $\vdash$  | ╁        | $\dashv$          | ⊣              | :: -                                   |                     | 92<br>93  | +               | $\perp$   | $\coprod$ | H                      | 4            | <u> </u>    | $\Box$                                  |              | i F        |              | 142          | 4               | 7         | T            | F        | П           | П        | $\Box$       | $\exists$ | • |             |
| Ė        |                                        | 44       | 士       | 士        | 士             |                   |                       |           |          | 士                 |                | - [                                    |                     | 94        | 士               | t_        | +-1       | 1                      | -            | $\vdash$    | $\vdash$                                | -            | 1          |              | 143          | +               | +         | +-           | ╀        | H           | H        | +            | $\dashv$  |   |             |
| F        |                                        | 45       | 7       | 7        | 7             | $\overline{\Box}$ | $\widetilde{\square}$ | $\square$ | $\Box$   | $\exists$         | ]              | : [                                    |                     | 95        | T               | 丰         | $\Box$    | 耳                      | J            | $\sqsubset$ | 口                                       |              |            |              | 145          | ユ               | #         | 工            | 上        | 口           |          | 1            | 1         |   |             |
|          |                                        | 46<br>47 | 十       | +        | +             | 7                 | $\vdash$              | Н         | 1        | +                 | 4              | ·                                      |                     | 96<br>97  | +               | +         | ┼┤        |                        | $\dashv$     | -           | $\vdash \vdash$                         | -1:          | -          |              | 146          | +               | +         | +            | $\vdash$ | $\vdash$    | H        | +            | 4         |   |             |
| F        | - 1                                    | 48       | 丰       | #        | 7             | $\Box$            | $\Box$                |           | 口        | 7                 |                | <u>.</u>                               |                     | 98        | 士               | 土         |           | 寸                      | 1            |             |                                         | 1            | ŀ          |              | 148          | +               | 士         | 七            | 七        | 忇           |          | 1            | 7         |   |             |
| <b> </b> |                                        | 49<br>50 | +       | +        | +             | -                 | -                     | Щ         | $\vdash$ | 4                 | 4              | " [                                    |                     | 99<br>100 | 7               | I         | $\Box$    | $\Box$                 | 7            |             | $\Box$                                  | ]            |            | $\supseteq$  | 149          | <b>T</b>        | Ţ         | T            |          |             | $\Box$   | 7            | $\Box$    |   |             |
| L        | ــــــــــــــــــــــــــــــــــــــ | 30       |         |          | _             |                   | _                     | ш         | 4        |                   | ٠.             | ٠ ــــــــــــــــــــــــــــــــــــ |                     | 1001      |                 | 丄         | لسل       |                        | ᆚ            | '           | ـــــــــــــــــــــــــــــــــــــــ | _];          | :[         | i            | 150          | 丄               |           | 丄            | لـــا    | Ш           |          | 丄            | لـ        |   |             |